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21 Special feature: Report on a working session on security in wireless ad hoc networks
Levente Buttyán, Jean-Pierre Hubaux
January 2003 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 7 Issue 1
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22 An investigation of geographic mapping techniques for internet hosts
Venkata N. Padmanabhan, Lakshminarayanan Subramanian
August 2001 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2001 conference on Applications, technologies, architectures, and protocols for computer communications**, Volume 31 Issue 4
Full text available: pdf(319.78 KB) Additional Information: full citation, references, citings, index terms

23 A hybrid indoor navigation system
Andreas Butz, Jörg Baus, Antonio Krüger, Marco Lohse
January 2001 **Proceedings of the 6th international conference on Intelligent user interfaces**
Full text available: pdf(123.55 KB) Additional Information: full citation, abstract, references, citings, index terms

We describe a hybrid building navigation system consisting of stationary information booths and a mobile communication infrastructure feeding small portable devices. The graphical presentations for both the booths and the mobile devices are generated from a common source and for the common task of way finding, but they use different techniques to convey possibly different subsets of the relevant information. The form of the presentations is depending on technical limitations of the output m ...

Keywords: hybrid user interfaces, navigation, resource adaptivity, user adaptivity

24 A personal view of the personal work station: some firsts in the Fifties
Douglas Ross
January 1986 **Proceedings of the ACM Conference on The history of personal workstations**
Full text available: pdf(4.26 MB) Additional Information: full citation, references, index terms

25 Modeling methodology: GPSS: 40 years of development
Ingolf Ståhl
December 2001 **Proceedings of the 33nd conference on Winter simulation**

Full text available: pdf(276.22 KB) Additional Information: full citation, abstract, references, citings, index terms

This year GPSS celebrates its 40th birthday. This paper reports on the development during these 40 years, starting with the first version developed by Gordon at IBM in 1961, and the following development of GPSS II, GPSS III, GPSS/360 and GPSS V, all IBM products. A major section is devoted to GPSS/H, which has dominated the GPSS scene during the last years. There is one section on the GPSSR family of GPSS versions and one on GPSS/PC and GPSS World. There are also many GPSS systems, p ...

26 Lexical analysis and parsing techniques for a vector machine
Michael K. Donegan, Stuart W. Kartzke
January 1975 **ACM SIGPLAN Notices , Proceedings of the conference on Programming languages and compilers for parallel and vector machines**, Volume 10 Issue 3

Full text available: pdf(519.37 KB) Additional Information: full citation, abstract, references, citings, index terms

The use of vector oriented hardware for compilation places a special burden on the compiler writer to make use of vector operations whenever possible. This paper presents various techniques for lexical analysis and parsing using the CDC STAR-100 instruction set. Although the similarity between APL and the STAR is apparent, previous techniques developed by Lincoln and others using APL as a base cannot be used directly on the STAR. Difficulties involved in implementing such methods occur beca ...

Keywords: Compilation, Lexical-analysis, Vector-processors

27 CyPhone—bringing augmented reality to next generation mobile phones
Tino Pyssysalo, Tapio Repo, Tuukka Turunen, Teemu Lankila, Juha Röning
April 2000 **Proceedings of DARE 2000 on Designing augmented reality environments**

Full text available: pdf(6.46 MB) Additional Information: full citation, abstract, references, index terms

We describe a prototype implementation of a future mobile phone called CyPhone. In addition to voice calls, it has been designed to support context-specific and multi-user multimedia services in an augmented reality manner. Context-awareness has been implemented with GPS-based navigation techniques and a registration algorithm, capable of detecting a predefined 3-D model or a landmark in the environment. A new adaptive transport protocol has been developed to support real-time packet-switched ...

Keywords: mobile communication, navigation, networked virtual reality, real-time data transport protocols, registration

28 A scalable location service for geographic ad hoc routing
Jinyang Li, John Jannotti, Douglas S. J. De Couto, David R. Karger, Robert Morris
August 2000 **Proceedings of the 6th annual international conference on Mobile computing and networking**

Full text available: pdf(1.28 MB) Additional Information: full citation, abstract, references, citings, index terms

GLS is a new distributed location service which tracks mobile node locations. GLS combined with geographic forwarding allows the construction of ad hoc mobile networks that scale to a larger number of nodes than possible with previous work. GLS is decentralized and runs on the mobile nodes themselves, requiring no fixed infrastructure. Each mobile node periodically updates a small set of other nodes (its location servers) with its current location. A node sends its position updates to its l ...

29 Why use computers to make drawings?

George Whale
October 2002 **Proceedings of the fourth conference on Creativity & cognition**

Full text available: pdf(300.47 KB) Additional Information: full citation, abstract, references, index terms

In the field of art and design, there are some circumstances in which the use of computers for drawing would seem to confer few tangible benefits; and in situations where computers are productively employed, usage is often tightly bound by convention. Consequently, some practioners doubt whether the technology has anything new to offer them. In this paper, a wide-ranging review of contemporary, computer-mediated drawing leads the author to conclude that such scepticism is unfounded - that comput ...

Keywords: collaborative art, computer aided design, computer art, creative programming, digital tools, drawing

30 Text and information extraction: An efficient chart-based algorithm for partial-parsing of unrestricted texts

David D. McDonald
March 1992 **Proceedings of the third conference on Applied natural language processing**

Full text available: pdf(945.64 KB) Publisher Site Additional Information: full citation, abstract, references

We present an efficient algorithm for chart-based phrase structure parsing of natural language that is tailored to the problem of extracting specific information from unrestricted texts where many of the words are unknown and much of the text is irrelevant to the task. The parser gains algorithmic efficiency through a reduction of its search space. As each new edge is added to the chart, the algorithm checks only the topmost of the edges adjacent to it, rather than all such edges as in conventio ...

31 Impala: a middleware system for managing autonomic, parallel sensor systems

Ting Liu, Margaret Martonosi
June 2003 **ACM SIGPLAN Notices , Proceedings of the ninth ACM SIGPLAN symposium on Principles and practice of parallel programming**, Volume 38 Issue 10

Full text available: pdf(684.33 KB) Additional Information: full citation, abstract, references, index terms

Sensor networks are long-running computer systems with many sensing/compute nodes working to gather information about their environment, process and fuse that information, and in some cases, actuate control mechanisms in response. Like traditional parallel systems, communication between nodes is of fundamental importance, but is typically accomplished via wireless transceivers. One further key attribute of sensor networks is that they are almost always long running systems, intended to operate i ...

Keywords: middleware system, sensor networks, software adaptation, software update

32 Performance evaluation for a quasi-synchronous packet radio network (QSPNET)

Ayan Banerjee, Ronald A. Iltis, Emmanouel A. Varvarigos
October 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 5

Full text available: pdf(299.42 KB) Additional Information: full citation, abstract, references, index terms

We propose a new media-access and connection-establishment protocol for an *ad-hoc* quasi-synchronous packet radio network (QSPNET). In the QSPNET, the bandwidth is partitioned into a data channel, used to transmit packets, and a control channel, used to make reservations. Transmitted wave-forms in the QSPNET are made quasi-synchronous by using a local GPS clock. The QSPNET uses a novel linear decorrelator receiver for multiuser detection, which permits the reception of quasi-synchronous co ...

Keywords: *Ad hoc* packet radio networks, quasi-synchronous CDMA, tell-and-go protocol

33 Directional antenna: A MAC protocol for full exploitation of directional antennas in ad-hoc wireless networks

Thanasis Korakis, Gentian Jakllari, Leandros Tassiulas

June 2003 **Proceedings of the 4th ACM international symposium on Mobile ad hoc networking & computing**

Full text available: pdf(164.59 KB) Additional Information: full citation, abstract, references, index terms

Directional antennas in ad hoc networks offer many benefits compared with classical omnidirectional antennas. The most important include significant increase of spatial reuse, coverage range and subsequently network capacity as a whole. On the other hand, the use of directional antennas requires new approach in the design of a MAC protocol to fully exploit these benefits. Unfortunately, directional transmissions increase the hidden terminal problem, the problem of deafness and the problem of det ...

Keywords: IEEE 802.11, directional antenna systems, medium access control, mobile ad hoc networks

34 Routing on a curve

Badri Nath, Dragoş Niculescu

January 2003 **ACM SIGCOMM Computer Communication Review**, Volume 33 Issue 1

Full text available: pdf(229.57 KB) Additional Information: full citation, abstract, references, index terms

Relentless progress in hardware technology and recent advances in sensor technology, and wireless networking have made it feasible to deploy large scale, dense ad-hoc networks. These networks together with sensor technology can be considered as the enablers of emerging models of computing such as embedded computing, ubiquitous computing, or pervasive computing. In this paper, we propose a new paradigm called trajectory based forwarding (or TBF), which is a generalization of source based routing ...

Keywords: ad hoc networks, routing, trajectory based forwarding

35 GPSR: greedy perimeter stateless routing for wireless networks

Brad Karp, H. T. Kung

August 2000 **Proceedings of the 6th annual international conference on Mobile computing and networking**

Full text available: pdf(1.41 MB) Additional Information: full citation, abstract, references, citings

We present Greedy Perimeter Stateless Routing (GPSR), a novel routing protocol for wireless datagram networks that uses the positions of routers and a packet's destination to make packet forwarding decisions. GPSR makes greedy forwarding decisions using only information about a router's immediate neighbors in the network topology. When a packet reaches a region where greedy forwarding is impossible, the algorithm recovers by routing around the perim ...

36 A generalized processor sharing approach to flow control in integrated services networks: the multiple node case

Abhay K. Parekh, Robert G. Gallagher

April 1994 **IEEE/ACM Transactions on Networking (TON)**, Volume 2 Issue 2

Full text available: pdf(1.37 MB) Additional Information: full citation, references, citings, index terms

37 The Hearsay-II Speech-Understanding System: Integrating Knowledge to Resolve Uncertainty

Lee D. Erman, Frederick Hayes-Roth, Victor R. Lesser, D. Raj Reddy

June 1980 **ACM Computing Surveys (CSUR)**, Volume 12 Issue 2

Full text available: pdf(3.8[illegible]) Additional Information: full citation, refe[illegible]es, citings, index terms

38 Physical interface: TAG: a Tiny AGgregation service for ad-hoc sensor networks

Samuel Madden, Michael J. Franklin, Joseph M. Hellerstein, Wei Hong
December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI

Full text available: pdf(2.19 MB) Additional Information: full citation, abstract, references, citings

We present the Tiny AGgregation (TAG) service for aggregation in low-power, distributed, wireless environments. TAG allows users to express simple, declarative queries and have them distributed and executed efficiently in networks of low-power, wireless sensors. We discuss various generic properties of aggregates, and show how those properties affect the performance of our in network approach. We include a performance study demonstrating the advantages of our approach over traditional centralize ...

39 Routing: Age matters: efficient route discovery in mobile ad hoc networks using encounter ages

Henri Dubois-Ferriere, Matthias Grossglauser, Martin Vetterli
June 2003 **Proceedings of the 4th ACM international symposium on Mobile ad hoc networking & computing**

Full text available: pdf(458.34 KB) Additional Information: full citation, abstract, references, citings, index terms

We propose FResher Encounter SearcH (FRESH), a simple algorithm for efficient route discovery in mobile ad hoc networks. Nodes keep a record of their most recent encounter times with all other nodes. Instead of searching for the destination, the source node searches for any intermediate node that encountered the destination more recently than did the source node itself. The intermediate node then searches for a node that encountered the destination yet more recently, and the procedure iterates u ...

Keywords: ad hoc networks, routing, wireless networks

40 Adaptive group multicast with time-driven priority

Mario Baldi, Yoram Ofek, Bülent Yener
February 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 1

Full text available: pdf(240.68 KB) Additional Information: full citation, references, citings, index terms

Keywords: fairness, multicast, quality of service, real time, ring networks, scheduling, time-driven priority

Terms used **terminal near/2 vector** and **position** and **gps** Found **77,836** of **132,857**

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41 Termination detection in logic programs using argument sizes (extended abstract)
Kirack Sohn, Allen Van Gelder
April 1991 **Proceedings of the tenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**
Full text available: pdf(967.70 KB) Additional Information: full citation, references, citings, index terms

42 Algorithm 827: irbleigs: A MATLAB program for computing a few eigenpairs of a large sparse Hermitian matrix
J. Baglama, D. Calvetti, L. Reichel
September 2003 **ACM Transactions on Mathematical Software (TOMS)**, Volume 29 Issue 3
Full text available: pdf(119.50 KB) Additional Information: full citation, abstract, references, index terms

irbleigs is a MATLAB program for computing a few eigenvalues and associated eigenvectors of a sparse Hermitian matrix of large order *n*. The matrix is accessed only through the evaluation of matrix-vector products. Working space of only a few *n*-vectors is required. The program implements a restarted block-Lanczos method. Judicious choices of acceleration polynomials make it possible to compute approximations of a few of the largest eigenvalues, a few of the smallest eigenvalues, or ...

Keywords: Block Lanczos method, eigenvalue computation, generalized eigenproblem, polynomial acceleration, singular values

43 The *n*-hop multilateration primitive for node localization problems
Andreas Savvides, Heemin Park, Mani B. Srivastava
August 2003 **Mobile Networks and Applications**, Volume 8 Issue 4
Full text available: pdf(208.39 KB) Additional Information: full citation, abstract, references, index terms

The recent advances in MEMS, embedded systems and wireless communication technologies are making the realization and deployment of networked wireless microsensors a tangible task. In this paper we study node localization, a component technology that would enhance the effectiveness and capabilities of this new class of networks. The *n*-hop multilateration primitive presented here, enables ad-hoc deployed sensor nodes to accurately estimate their locations by using known beacon locations tha ...

Keywords: ad-hoc localization, distributed localization, sensor networks

44 Intrusion detection techniques for mobile wireless networks

Yongguang Zhang, Wenke Lee, Yi-An Huang
September 2003 **Wireless Networks**, Volume 9 Issue 5

Full text available: pdf(164.73 KB) Additional Information: full citation, abstract, references, index terms

The rapid proliferation of wireless networks and mobile computing applications has changed the landscape of network security. The traditional way of protecting networks with firewalls and encryption software is no longer sufficient and effective. We need to search for new architecture and mechanisms to protect the wireless networks and mobile computing application. In this paper, we examine the vulnerabilities of wireless networks and argue that we must include intrusion detection in the securit ...

Keywords: anomaly detection, cooperative detection, intrusion detection, intrusion response, mobile ad-hoc networks

45 PARO: supporting dynamic power controlled routing in wireless ad hoc networks

Javier Gomez, Andrew T. Campbell, Mahmoud Naghshineh, Chatschik Bisdikian
September 2003 **Wireless Networks**, Volume 9 Issue 5

Full text available: pdf(311.95 KB) Additional Information: full citation, abstract, references, index terms

This paper introduces PARO, a dynamic power controlled routing scheme that helps to minimize the transmission power needed to forward packets between wireless devices in ad hoc networks. Using PARO, one or more intermediate nodes called "redirectors" elects to forward packets on behalf of source-destination pairs thus reducing the aggregate transmission power consumed by wireless devices. PARO is applicable to a number of networking environments including wireless sensor networks, home networks ...

Keywords: ad hoc networks, power control, power optimization, routing protocols

46 Mobility: Mobility modelling and trajectory prediction for cellular networks with mobile base stations

Pubudu N. Pathirana, Andrey V. Savkin, Sanjay Jha
June 2003 **Proceedings of the 4th ACM international symposium on Mobile ad hoc networking & computing**

Full text available: pdf(514.67 KB) Additional Information: full citation, abstract, references, index terms

This paper provides mobility estimation and prediction for a variant of GSM network which resembles an adhoc wireless mobile network where base stations and users are both mobile. We propose using Robust Extended Kalman Filter (REKF)as a location heading altitude estimator of mobile user for next node (mobile-base station)in order to improve the connection reliability and bandwidth efficiency of the underlying system. Through analysis we demonstrate that our algorithm can successfully track the ...

47 Squibs and discussions: Memoization in top-down parsing

Mark Johnson
September 1995 **Computational Linguistics**, Volume 21 Issue 3

Full text available: pdf(777.75 KB) Publisher Site Additional Information: full citation, references

48 A pattern matching method for finding noun and proper noun translations from noisy parallel corpora

Pascale Fung
June 1995 **Proceedings of the 33rd conference on Association for Computational Linguistics**

Full text available: pdf(646.08 KB) Publisher Site Additional Information: full citation, abstract, references

We present a pattern matching method for compiling a bilingual lexicon of nouns and proper nouns from unaligned, noisy parallel texts of Asian/Indo-European language pairs. Tagging information of one language is used. Word frequency and position information for high and low frequency words are represented in two different vector forms for pattern matching. New anchor point finding and noise elimination techniques are introduced. We obtained a 73.1% precision. We also show how the results can be ...

49 Self organized terminode routing simulation

Ljubica Blažević, Silvia Giordano, Jean-Yves Le Boudec

July 2001 **Proceedings of the 4th ACM international workshop on Modeling, analysis and simulation of wireless and mobile systems**

Full text available: pdf(718.85 KB) Additional Information: full citation, abstract, references, index terms

We simulated terminode routing as presented in [6]. This routing scheme is designed for wide area networks, where a large part or all the nodes are mobile. Terminode routing is a combination of two protocols called Terminode Local Routing (TLR) and Terminode Remote Routing (TRR). TLR is used to route packets to close destinations. TRR is used to route to remote destinations and is composed of the following elements: Anchored Geodesic Packet Forwarding (AGPF), Anchored Path Discovery (APD), mu ...

Keywords: mobile ad-hoc network, mobility model, routing

50 Real-time vision-based camera tracking for augmented reality applications

Dieter Koller, Gudrun Klinker, Eric Rose, David Breen, Ross Whitaker, Mihran Tuceryan

September 1997 **Proceedings of the ACM symposium on Virtual reality software and technology**

Full text available: pdf(1.20 MB) Additional Information: full citation, references, citings, index terms

51 Session A: Routing: LANMAR: landmark routing for large scale wireless ad hoc networks with group mobility

Guangyu Pei, Mario Gerla, Xiaoyan Hong

November 2000 **Proceedings of the 1st ACM international symposium on Mobile ad hoc networking & computing**

Full text available: pdf(670.36 KB) Additional Information: full citation, abstract, references, citings

In this paper, we present a novel routing protocol for wireless ad hoc networks - Landmark Ad Hoc Routing (LANMAR). LANMAR combines the features of Fisheye State Routing (FSR) and Landmark routing. The key novelty is the use of landmarks for each set of nodes which move as a group (e.g., a team of co-workers at a convention or a tank battalion in the battlefield) in order to reduce routing update overhead. Like in FSR, nodes exchange link state only with their neighbors. Routes within Fisheye sc ...

52 A framework for the transmission of streaming media to mobile devices

Kevin Curran, Gerard Parr

January 2002 **International Journal of Network Management**, Volume 12 Issue 1

Full text available: pdf(302.57 KB) Additional Information: full citation, abstract, references, index terms

One interesting problem is the delay imposed upon mobile receivers when switching between wireless cells. We provide a solution to this in the form of an extension of Mobile IP's handoff algorithm. Our solution involves the exploitation of mobility prediction to predict a mobile terminal's future location based on its previous history (i.e. the last cell that it has been in) and for the media stream to be already present and cached by next cells base station ready for receiving by the mobile dev ...

53 A survey of routing techniques for mobile communications networks

S. Ramanathan, Martha Steenstrup

October 1996 **Mobile Networks and Applications**, Volume 1 Issue 2